

ABSTRACT

5 An adjustable eddy electrostatic precipitator, comprising a main
body, an electrode array, an adjustable opening and a precipitating
device. The main body has an inner space with an air guiding plate
of helical shape, an entrance for air and an exit for air. The electrode
array is placed close to the entrance, ionizing air as well as particles
floating therein. The adjustable opening is located at the exit, having
an adjustable aperture. The precipitating device is connected with
10 a bias high voltage for adsorbing ionized particles. Air entering the
main body through the entrance is ionized, ionizing particles floating
therein. Ionized particles are driven towards a single zone and are
collected depending on size and charge in an adjustable manner.